

1 **CLAIMS**

2 1. A method, comprising:
3 receiving data input through a web page from a client device;
4 referencing a declarative module to determine a client input security screen
5 to apply to the data input from the client device; and
6 applying the client input security screen to the data input from the client
7 device.

8

9 2. The method as recited in claim 1, wherein the declaration module
10 further comprises a global section that includes at least one client input security
11 screen that applies to any type of client input value.

12

13 3. The method as recited in claim 1, wherein the declaration module
14 further comprises an individual values section that includes at least one client
15 input security screen that applies to a particular type of client input value.

16

17 4. The method as recited in claim 3, wherein the particular type of client
18 input value is one of the following types of client input values: query string; server
19 variable; form value; cookie.

20

21 5. The method as recited in claim 1, wherein the declaration module
22 further comprises a web.config file.

1 6. The method as recited in claim 1, wherein the applying the client
2 input security screen further comprises executing a default action on invalid client
3 input detected by the client input security screen.

4

5 7. The method as recited in claim 1, wherein the applying the client
6 input security screen further comprises executing a specified action on invalid
7 client input detected by the client input security screen, the specified action being
8 specified in the client input security screen.

9

10 8. The method as recited in claim 1, wherein a client input security
11 screen further comprises one or more values that may be entered as client input,
12 the one or more values further comprising the only values that may be entered as
13 client input.

14

15 9. The method as recited in claim 1, wherein a client input security
16 screen further comprises one or more screened values that, when detected in the
17 client input, cause an action to be taken on the client input.

18

19 10. The method as recited in claim 9, wherein the action to be taken
20 further comprises removing the one or more screened values detected in the client
21 input.

1 **11.** The method as recited in claim 9, wherein the action to be taken
2 further comprises removing an entire string that contains the one or more screened
3 values detected in the client input.

4

5 **12.** A system, comprising:
6 a web page server unit configured to provide one or more web pages to one
7 or more client devices over a distributed network;

8 means for receiving client input data;
9 a declaration module configured to include at least one client input security
10 screen that declares one or more screening rules for client input; and

11 a client input security screening unit configured to apply the one or more
12 screening rules for client input to the client input data and to perform one or more
13 actions on invalid client input data.

14

15 **13.** The system as recited in claim 12, wherein the declaration module
16 further comprises a global section that includes one or more client input security
17 screens that are applied to all types of client input.

18

19 **14.** The system as recited in claim 12, wherein the declaration module
20 further comprises an individual values section that includes one or more client
21 input security screens that are applied to specified types of client input.

1 **15.** The system as recited in claim 12, wherein the declaration module
2 further comprises a global section that includes one or more client input security
3 screens that are applied to all types of client input, and an individual values section
4 that includes one or more client input security screens that are applied to specified
5 types of client input.

6

7 **16.** The system as recited in claim 12, wherein a screening rule further
8 comprises a client input variable that may be accepted as input from a client.

9

10 **17.** The system as recited in claim 12, wherein a screening rule further
11 comprises one or more screened characters that, when detected in client input, are
12 screened from the client input according to a screening rule.

13

14 **18.** The system as recited in claim 17, wherein the screening rule further
15 comprises a default screening action that is applied in the absence of a specified
16 screening action.

17

18 **19.** The system as recited in claim 17, wherein the screening rule further
19 comprises a specified screening action that is applied to the screened client input.

20

21 **20.** The system as recited in claim 12, wherein the declaration module
22 further comprises a web.config file.

1 **21.** One or more computer-readable media containing computer-
2 executable instructions that, when executed on a computer, perform the following
3 steps:

4 serving a web page to a client over a distributed network;
5 receiving client input via the web page;
6 comparing the client input with one or more client input security screens
7 stored in a security declaration module;
8 if invalid client input is detected, performing a screening action on the
9 invalid client input as indicated by the security declaration module; and
10 wherein the one or more input security screens included in the security
11 declaration module can be applied to multiple web pages.

12
13 **22.** The one or more computer-readable media as recited in claim 21,
14 wherein the one or more client input security screens further comprise a global
15 section configured to screen all types of client input values.

16
17 **23.** The one or more computer-readable media as recited in claim 21,
18 wherein the one or more client input security screens further comprise an
19 individual values section configured to screen particular types of client input
20 values.

21
22 **24.** The one or more computer-readable media as recited in claim 21,
23 wherein the security declaration module further comprises a web.config file.

1 **25.** The one or more computer-readable media as recited in claim 21,
2 wherein the screening action further comprises an action specified in a client input
3 security screen.
4

5 **26.** The one or more computer-readable media as recited in claim 21,
6 wherein the screening action further comprises a default action that is not required
7 to be specified in a client input security screen.
8

9 **27.** The one or more computer-readable media as recited in claim 21,
10 wherein the multiple web pages are included in a web project.
11

12 **28.** The one or more computer-readable media as recited in claim 21,
13 wherein the multiple web pages are included in a web-based application.
14
15
16
17
18
19
20
21
22
23
24
25